

ABSTRACT OF THE DISCLOSURE

A glial precursor cell population from mammalian central nervous system has been isolated. These A2B5⁺ E-NCAM⁻ glial-restricted precursor (GRP) cells are capable of
5 differentiating into oligodendrocytes, A2B5⁺ process-bearing astrocytes, and A2B5⁻ fibroblast-like astrocytes, but not into neurons. GRP cells can be maintained by regeneration in culture. GRP cells differ from oligodendrocyte-type-2 astrocyte (O-2A) progenitor cells in growth factor
10 requirements, morphology, and progeny. Methods of use of GRP cells are also disclosed.